OWNER'S MANUAL

OTC 179

ROY

COLOR TV

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SAFETY INFORMATION

WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN

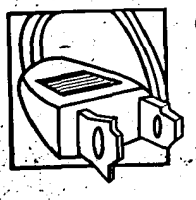
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

WARNING

To reduce the risk of fire or shock hazard, do not expose this TV to rain or moisture.



Caution: To reduce the risk of electric shock, match wide blade of plug to wide slot, fully insert.

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqú au fond.

- Do not defeat the safety feature of the plug. The wide blade fits into the wall socket only one way. If you need an extension cord, make sure it matches the plug of the TV.
- Operate TV only on 120 volts, 60 Hz AC power (normal house power).
- For safety reasons, make sure any equipment or accessories connected to this product bears the UL listing mark or the CSA or certification mark. If in doubt, contact qualified service personnel.
- FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

NOTE TO CABLE TV INSTALLER

This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

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FIRST THINGS FIRST

HI, MY NAME IS SCOTT...

...and I wrote this user manual. You're probably saying to yourself, "so *you're* the guy." Well, laugh if you must, but it's my job to see that you have a rewarding user manual experience. No, really.

ARE YOU KIDDING? AN 80-PAGE INSTRUCTION BOOK?

Back in the old days, you bought a TV, stuck some rabbit ears on it, and sat back and enjoyed test patterns and bad sitcoms. Now, TVs are more like computers than radios, and you have to jump through a few hoops to get the TV up and running. Don't worry, it sounds more complicated than it is.

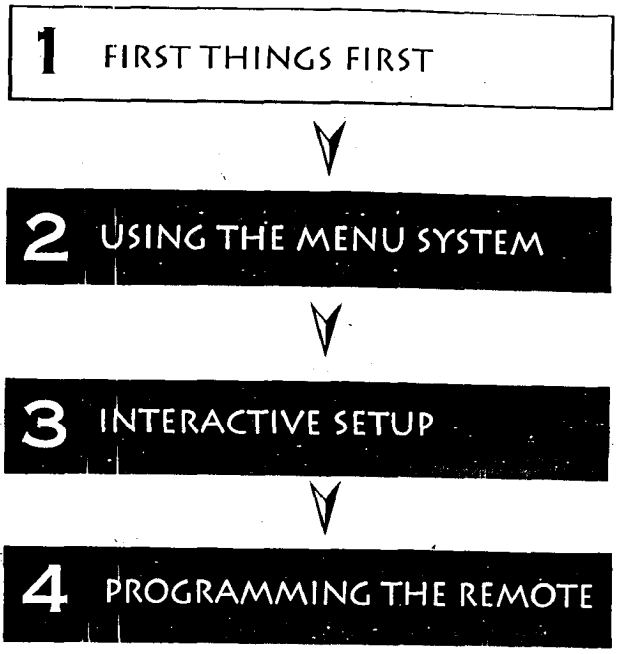
READ THE FIRST FOUR CHAPTERS

These chapters cover the four big hoops: get the TV out of the box and hooked up, learn to move through the menu system, run the interactive setup routine, and program the remote to control your VCR and other stuff. That's about thirty pages' worth of user manual stuff.

The rest of the manual should be used as reference material. You can thumb through these sections whenever you get some time. If you have a specific question, refer to the table of contents or the index.

CHECK OUT THE NOTES IN THE TEXT

I've spent a lot of time pestering the people who made your TV: engineers, designers, product managers—you name it, I cornered them. In the process, I've gotten some great advice about how to tweak the TV. I've passed on as many of these tips as I could, so keep an eye out for notes in the text.



The road map on the first page of each of the four main chapters to let you know where you are in the setup process.

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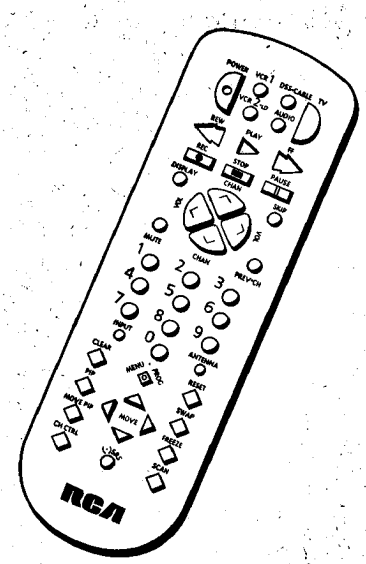
FIRST THINGS FIRST

STEP 1

Unpack the TV and accessories. The accessories packed with TV include the Universal Remote, the four AAA batteries, an antenna adapter, and an AV jack for plugging your camcorder or other audio/video component into the front of the TV. Make sure to locate the Connections Foldout.



Important Information: Optional Stand

A matching stand has been designed to be used with this television. The recommended stand, model RB3509, is provided with hardware to secure the TV to the stand so that it cannot be pulled off easily or tipped over. This stand is available from your local RCA dealer, and is not available by mail order. To locate your nearest dealer, call this toll-free number: 1-800-336-1900.

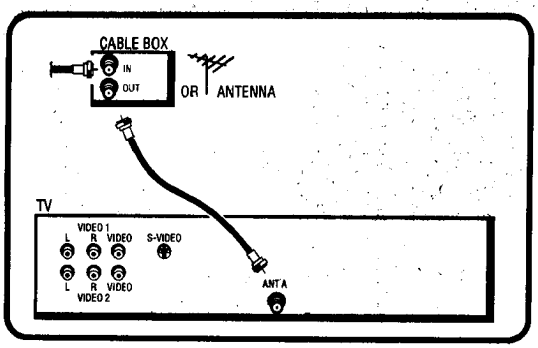
Caution If you choose not to use the recommended stand for your television, take precautions that the stand or other furniture on which the TV is placed is properly located and of adequate strength to prevent the TV from being tipped over accidently or pulled off the stand. Tipping over the TV or pulling it off the stand could cause both personal injury and damage to the set.

STEP 2: CONNECTING YOUR TV

If you're only going to connect the TV to your home antenna or cable box, use the "TV Only" connection shown below. If you're going to connect the TV to a VCR, laser disc player or other component, we recommend you use the Connections Foldout. The Connections Foldout details ten diagrams that are recommended for hooking up the TV to a cable box or antenna, one or two VCRs, a laserdisc player, and a DSS receiver.

TV ONLY

This is a basic connection from an antenna or cable box to your TV. Connect the cable as shown. If you have a VCR or other components to connect to the TV, skip to the top of the next page.



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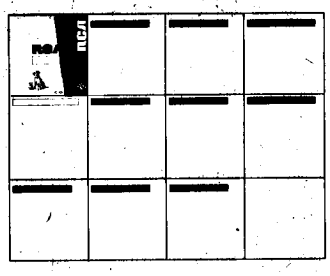
TV WITH OTHER COMPONENTS



Use the Connections Foldout to connect your TV to a VCR, laserdisc player, and/or DSS™ receiver. After connecting your TV and other components, proceed to the next step. See *Appendix A,* p. 57, for detailed information about using each of these connections.

If your components don't match those shown on the foldout, or if you prefer a different connection, see your dealer or specific component user manuals.

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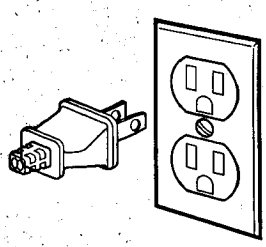
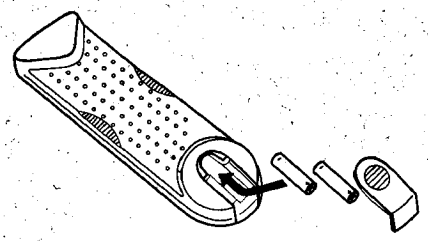
STEP 3



Plug in the TV.

Plug the end into the wall outlet, matching the wide blade of the plug with the wide slot in the outlet. Be sure to insert the plug completely.

STEP 4



Put batteries in the remote.

- Slide the battery compartment cover off back of the remote.
- Insert the four AAA batteries as shown, matching the + and – ends of each battery in the compartment.
- Replace the cover.

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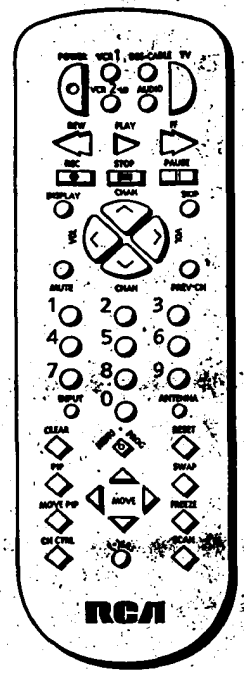
STEP 5

Turn on the TV.

- Press TV on the remote, or press POWER on the TV itself.



TV Button

STEP 6

Read the next section, *Using the Menu System*, which is a brief overview of the basic rules for getting around in the menus.

STEP 7

Proceed to section three, *Interactive Setup*. The interactive setup routine walks you through the steps needed to fully configure the TV. The first step is the auto channel search, which puts available cable TV or antenna signals into the TV's memory. **You must complete the auto channel search.** After this first step, you can skip any of the remaining steps and return to them later.

***Interactive Setup* is designed to be used with the Connections Foldout.**

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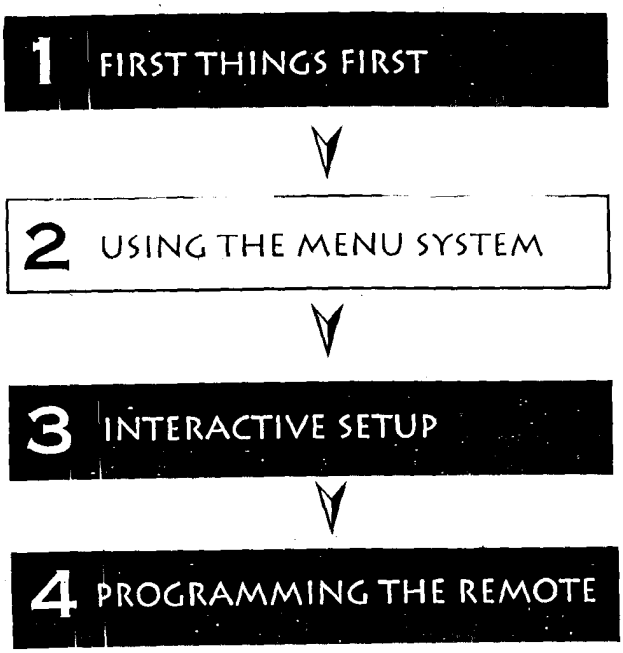
USING THE MENU SYSTEM

ONE RULE TO REMEMBER

You control and customize the TV by making changes to various control panels in the menu system. The great thing is, you only need to know one rule: point and select.



If you want a lot of cool features, you have to use some kind of menuing system. Look at it this way: you only need to know one rule.

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USING THE MENU SYSTEM

THE MENU RULE: POINT AND SELECT

You only need to know one rule to use the on-screen menus and control panels: point and select.

WHAT IS POINT AND SELECT?

The point and select method has two steps.

1. **Point** to a menu item using the MOVE arrows on the remote.

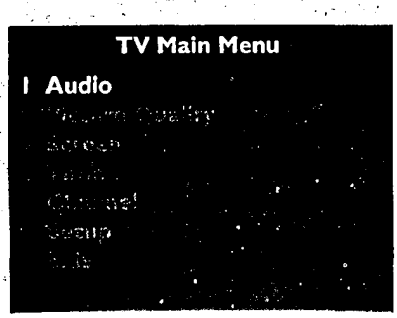
   To point up or down, press the up or down arrows. To point left or right, press the left or right arrows.

2. **Select** a menu item by pressing MENU•PROG.

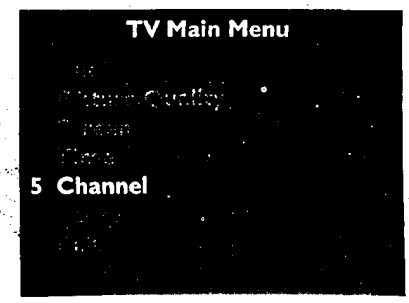
   Selecting an item tells the TV's menu system to go ahead and make the change or go to a place you have indicated.

For example, to select the Channel menu from the Main Menu:

1. Press MENU to bring up the Main Menu.



2. Point to *Channel* by pressing the down arrow until the word Channel is highlighted in green.



Press CLEAR at any time to remove all displays from the screen and return to TV viewing.

Because many VCR user manuals refer to a PROG button, the MENU button on this remote is called MENU•PROG. The rest of this manual refers to this button only as MENU.

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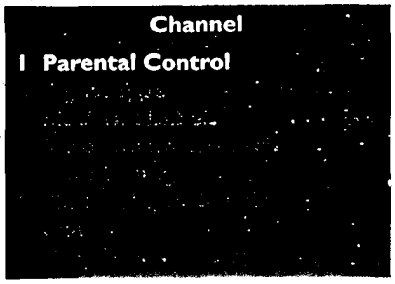
USING THE MENU SYSTEM

3. Press MENU to select *Channel*. The Channel menu comes up.



4. Point to *Exit* and press MENU to return to the Main Menu.
5. Point to *Exit* and press MENU to leave the menu system and return to TV viewing.

   If you ever want to leave the menu system, press CLEAR.

Once you know how to point and select your way through the menus, you can apply this rule in the control panels, which do the real work in the menu system.

One way to exit out of the menus is to press zero (0) until you back out of the menu system and return to TV viewing.

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USING THE MENU SYSTEM

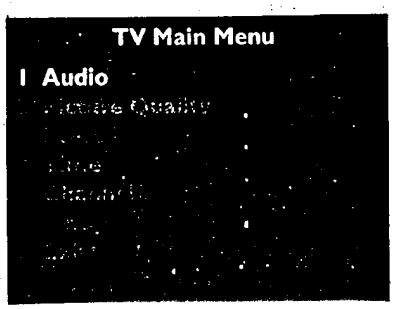
MENUS AND CONTROL PANELS

There are two parts to the menu system: menus and control panels. But before you can use a control panel, you first have to move through at least one menu—the Main Menu.

MENUS

The first menu is called the Main Menu. To bring up the Main Menu:

1. Press MENU on the remote or front panel:



Menus take you to another menu or a control panel. There are two ways to make a choice in a menu:

- Point and select with the MOVE arrows and MENU.
- Press a number button on the remote. For example, in the Main Menu press 3 to go straight to the Screen menu.

Exiting a menu

There are three ways to exit a menu:

- Point to Exit and press MENU.
- Press 0 on the remote.
- Press CLEAR. The on-screen displays are cleared from the screen and you are returned to TV viewing.

Feel free to explore the menu system. If you ever get lost or confused in the menus, or you're just plain tired of exploring, press CLEAR to remove the menus from the screen and start over again.

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USING THE MENU SYSTEM

CONTROL PANELS

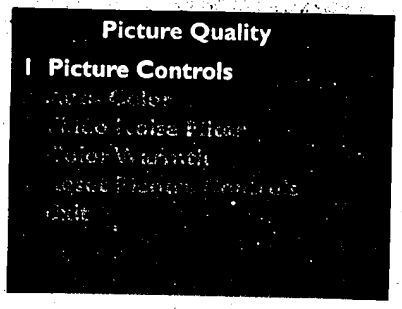
Control Panels do the work in the menu system: it's where you choose a setting, enter a number, or adjust a level such as tint or brightness. There are three kinds of control panels: sliders, choice lists, and numeric entry.

Sliders

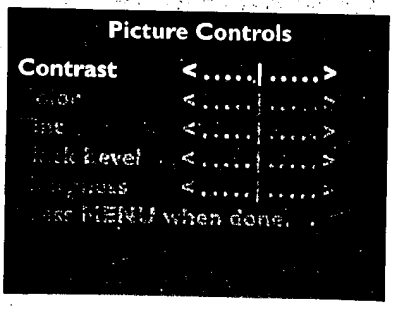
Sliders are used to make adjustments to a particular control.

For example, to adjust the TV's tint:

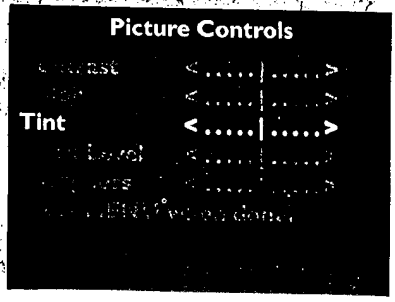
1. Press MENU to bring up the Main Menu.
2. Point to *Picture Quality* and press MENU. The Picture Quality menu comes up.



3. Press MENU to select Picture Controls.



4. Press the down arrow to point to *Tint*.



You don't need to remember the names of the control panel types. Once you've learned how each type works, you'll be able to use any part of the menu system.

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5. Press the right or left arrow to adjust the indicator line. Notice that the picture changes as you adjust the tint.

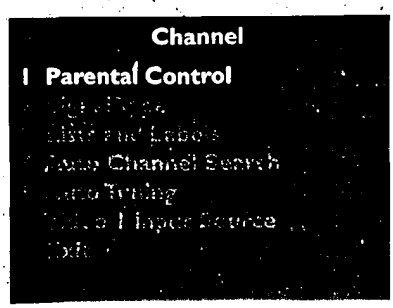
Now that you know how the Tint slider works, you know how all sliders work.

Choice Lists

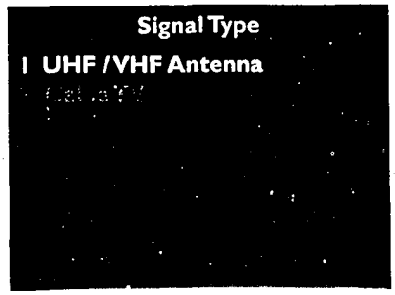
Choice lists are used to choose a particular setting from a list of settings. The current setting in a choice list is always highlighted in green.

For example, to indicate whether you're currently using a home antenna or a cable TV signals:

1. Press MENU to bring up the Main Menu.
2. Point to *Channel* and press MENU. The Channel menu comes up.



3. Point to Signal Type and press MENU. The Signal Type choice list comes up with the current setting highlighted in green. For example:



4. Point to the correct setting for your connection and press MENU. As soon as you select a choice, the TV saves your change, and you are returned to the previous menu.
5. Point to *Exit* and press MENU to return to the Main Menu.
6. Point to *Exit* and press MENU to return to TV viewing.

You can enter numbers directly by using the number buttons.

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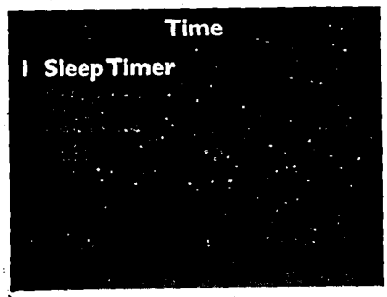
USING THE MENU SYSTEM

Numeric Entry

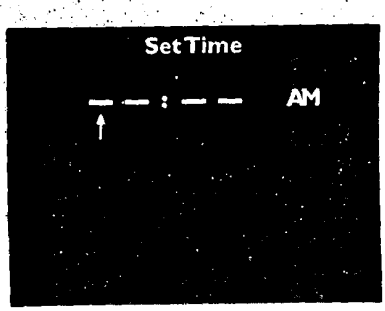
A numeric entry control panel is used to enter numbers or letters.

For example, to set the current time:

1. Press MENU to bring up the Main Menu.
2. Point to *Time* and press MENU.



3. Point to *Set Time* and press MENU. The Set Time numeric entry control panel comes up. Notice the pointer underneath the first dash.



4. Press the up arrow to enter a number in that column.
5. Press the right arrow to move to the next column, then press the up or down arrow to enter a number.
6. Repeat Step 5 until you have entered the hour and minute for the current time. Notice that when you reach the last column, pressing the up or down arrow changes whether the time reads AM or PM.

Trivia: This type of control panel is referred to as a "one-armed bandit." I don't know why.

If the control panel is not set at the current time, use the left arrow to go back over the columns and the up arrow to make changes.

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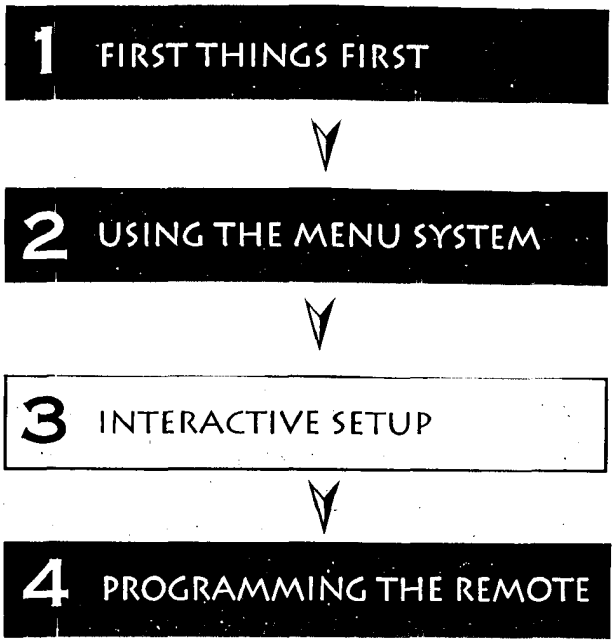
INTERACTIVE SETUP

THERE'S AN ON-SCREEN SETUP ROUTINE

Your TV has software that tells it what to do, just like a computer. The interactive setup routine takes you through the steps needed to configure the TV:

- Search for available channels
- Set the time
- Make channel lists and labels
- Set the VCR1 channel
- Set the VCR2•LD channel
- Set the DSS•CABLE channel



Complete the first step, auto channel search, to receive antenna or cable TV signals. After that, you can skip other steps and return to them at your convenience.

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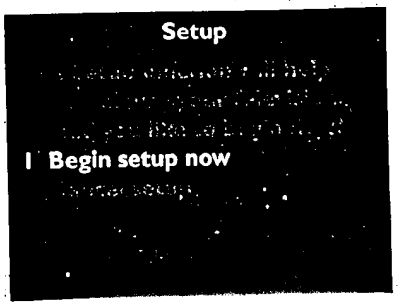
INTERACTIVE SETUP

ENTERING SETUP

Setup is accessed through the Main Menu.

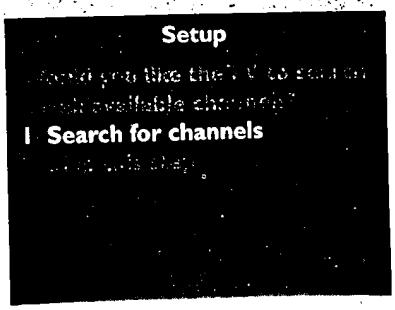
1. Press MENU to bring up the Main Menu.
2. Point to *Setup* and press MENU. The first Setup screen comes up, asking you to confirm that you want to begin.



3. Press MENU to begin the Setup routine.

AUTO CHANNEL SEARCH

The first part of the setup routine asks you if you want the TV to search automatically for all channels available through your antenna or cable TV system. This is sometimes called "autoprogramming."



1. Press MENU to tell the TV to begin searching for channels. The display gives you a progress report and tells you when it has finished.
2. Press MENU to continue.

You must complete the Auto Channel Search to receive TV signals and put channels in memory.

Auto Channel Search can also be accessed through the Channel menu.

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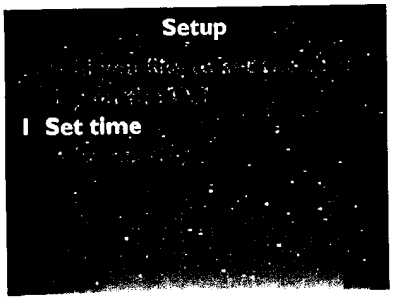
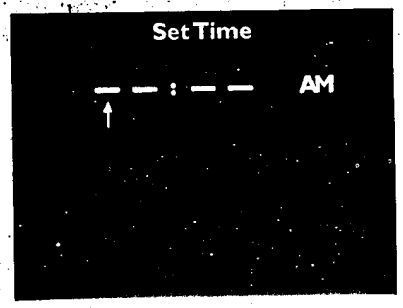
INTERACTIVE SETUP

SET THE TIME

The second step lets you set the time of day.



1. Press MENU to bring up the Set Time control panel.



2. Use the left and right arrows to point to the hour and minutes spaces. Use the up and down arrows to scroll through the numbers and change from AM to PM.
3. Press MENU to continue.

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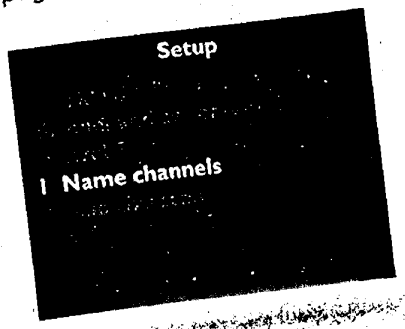
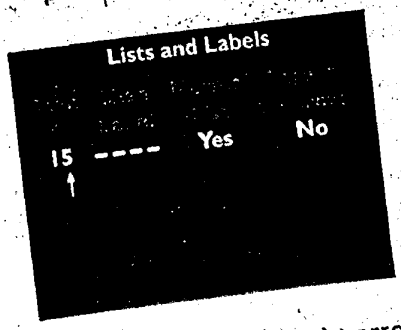
LABEL THE CHANNELS

The third step lets you make your channel list, label your channels, and choose whether each channel belongs in the parent-approved channel list. (For more, see *Lists and Labels*, page 44.)



1. Press MENU to bring up the Lists and Labels control panel.



2. Use the left and right arrows to point to the four different areas of the control panel (called "fields").
3. Use the up and down arrows to scroll through the numbers and letters and select *Yes* or *No* in the Normal and Parent approved fields. You may wish to refer to the call letters listed in your newspaper's TV section for ideas on labelling the channels.
4. Repeat this process for each of your channels. Then press MENU to continue.

Two Tips from Keith, the Design Engineer:

Use the CHAN buttons to change channels in the Chan # field. This works even if you're not in the Chan # field. Or, enter the channel number directly using the number buttons on the universal remote. To enter a number greater than 99, press and hold "1" to enter the hundreds digit, then press the two remaining numbers.

The lists and labels feature can also be accessed from the Channel menu. Because this procedure can be time consuming, feel free to skip this step and come back to it later.

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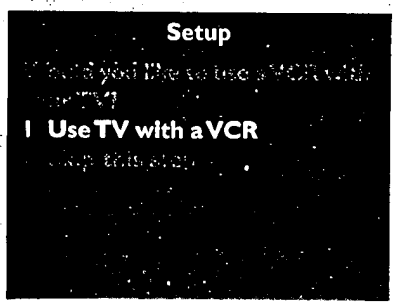
INTERACTIVE SETUP

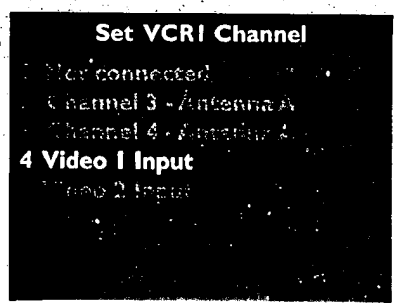
SET THE VCR1 CHANNEL

The fourth step lets you set the VCR1 channel. When you set the VCR1 channel, you're telling the TV what channel to tune to when you press the VCR1 button on the remote.

For example, if you have a VCR connected to the Video 1 input jacks on the back of the TV, you want the TV to tune to the Video 1 input channel when you press the VCR1 button. If you don't have a VCR1 component connected to the TV, skip this step or select *Not Connected* from VCR1 Channel choice list. (For more, see *Auto Tuning*, page 45.)



1. Press MENU to bring up the VCR 1 choice list.



2. Point to the choice that matches the way you have your VCR connected to the TV.

   If you used the Connections Foldout to hook up your TV, use the table shown at the right to select the VCR1 channel.

3. Press MENU to continue.

If you used	Select
Connection A	Video 1 Input
Connection B	Video 1 Input
Connection C	Video 1 Input
Connection D	Video 1 Input
Connection E	Not Connected
Connection F	Not Connected
Connection G	Video 2 Input
Connection H	Ch3 Antenna A*
Connection I	Video 2 Input

* Or Ch4 Antenna A, depending on how your VCR's 3/4 switch is set.

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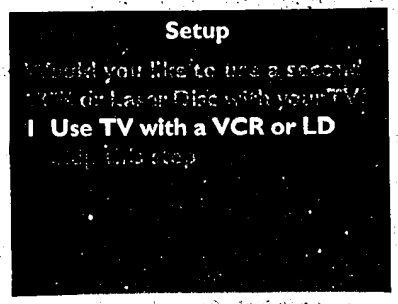
INTERACTIVE SETUP

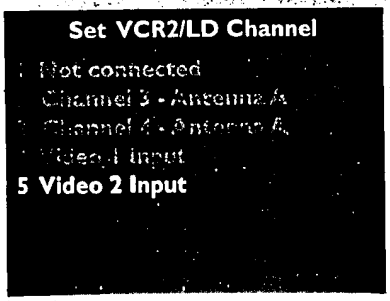
SET THE VCR2•LD CHANNEL

The fifth step lets you set the VCR2•LD channel. When you set the VCR2•LD channel, you're telling the TV what channel to tune to when you press the VCR2•LD button on the remote.

For example, if you have a laserdisc player connected to the Video 2 input jacks on the back of the TV, you want the TV to tune to the Video 2 input channel when you press VCR2•LD. If you don't have a VCR2•LD component connected to the TV, skip this step or select *Not Connected* from VCR•LD Channel choice list. (For more, see *Auto Tuning*, page 45.)



1. Press MENU to bring up the VCR2•LD choice list.



2. Point to the choice that matches the way you have your second VCR or laserdisc player connected to the TV.

   If you used the Connections Foldout to hook up your TV, use the table at right to select the VCR2 channel.

3. Press MENU to continue.

If you used	Select
Connection A	Not Connected
Connection B	Not Connected
Connection C	Video 2 Input
Connection D	Ch3 Antenna A*
Connection E	Video 1 Input
Connection F	Not Connected
Connection G	Not Connected
Connection H	Video 2 Input
Connection I	CH3 Antenna A*

* Or Ch4 Antenna A, depending on how your VCR's 3/4 switch is set.

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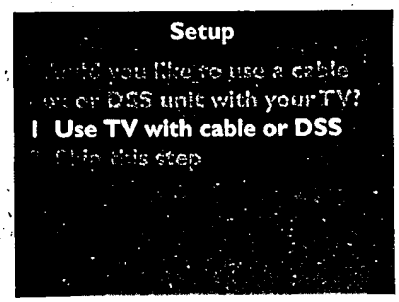
INTERACTIVE SETUP

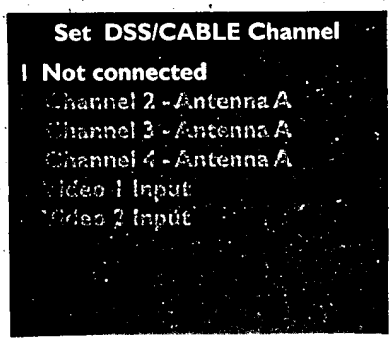
SET THE DSS•CABLE CHANNEL

The last step lets you set the DSS•CABLE channel. When you set the DSS•CABLE channel, you're telling the TV what channel to tune to when you press the DSS•CABLE button on the remote.

For example, if you have a cable box connected to the Antenna A on the back of the TV, and you usually tune your TV to channel 3 to see cable stations, you want the TV to tune CH 3 Antenna A when you press DSS•CABLE. If you don't have a DSS receiver cable box connected to the TV, skip this step or select *Not Connected* from the DSS•CABLE Channel choice list. (For more, see *Auto Tuning*, page 45.)



1. Press MENU to bring up the DSS•CABLE choice list.



Important:

If you have both a DSS receiver and a cable box connected to the TV...

...The remote cannot control both a cable box and the DSS receiver. The chart details how to set the DSS•CABLE button to control the DSS receiver. You must then use your cable box remote to control the cable box. You may, however, prefer to use the DSS remote for DSS programming, and set your DSS•CABLE button to control your cable box. It's your choice.

(Continued on next page)

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2. Point to the choice that matches the way you have your DSS receiver or cable box connected to the TV.

   If you used the Connections Foldout to hook up your TV, use the table at the right to select the DSS•CABLE channel.

3. Press MENU to complete the Setup routine and return to TV viewing.

WHAT NOW?

Now that you've finished the interactive setup, you can sit back, relax, and enjoy the TV. Or...

PROGRAM THE REMOTE

Since you've gone this far, you can take a few minutes to program the remote to control your VCR, laserdisc player, and other component. To find out how to program the remote, go to the next section.

If you used	With Cable Box Select	No Cable Box Select
Connection A	Ch3 Antenna A*	Not Connected
Connection B	Ch3 Antenna A*	Not Connected
Connection C	Ch3 Antenna A*	Not Connected
Connection D	Ch3 Antenna A*	Not Connected
Connection E	Ch3 Antenna A*	Not Connected
Connection F	Video 1 Input	Video 1 Input
Connection G	Video 1 Input	Video 1 Input
Connection H	Video 1 Input	Video 1 Input
Connection I	Video 1 Input	Video 1 Input

* Or Ch4 Antenna A, depending on how your VCR's 3/4 switch is set.

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PROGRAMMING THE REMOTE

IF YOU HAVE A VCR OR OTHER COMPONENT...

The universal remote can be programmed to control most brands of remote controllable TVs, VCRs, and cable boxes. If you have an RCA, GE, or ProScan VCR, you probably don't need to program it at all—other manufacturer's brands need to be programmed.

NOW WATCH SOME TV!

Once you've programmed the remote, you will have completed all four setup sections. Now you can sit back and enjoy the TV. If you want to know more about the different parts of the TV, see the next section, *Tour of the TV*. Refer to the other sections and appendices as needed.

1 FIRST THINGS FIRST

2 USING THE MENU SYSTEM

3 INTERACTIVE SETUP

4 PROGRAMMING THE REMOTE

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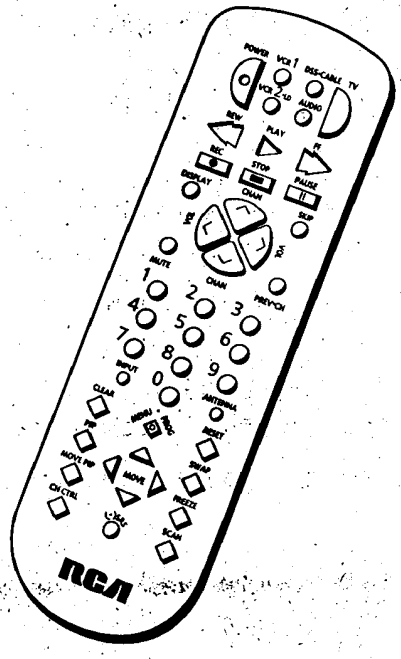
PROGRAMMING THE REMOTE

ABOUT PROGRAMMING THE REMOTE

The universal remote can be programmed to control most brands of remote controllable TVs, VCRs, and cable boxes. Most RCA, GE and ProScan TVs and VCRs are already programmed. Other manufacturer's brands need to be programmed.



PROGRAMMING THE REMOTE TO CONTROL A VCR

To determine whether the universal remote needs to be programmed, turn the VCR on, point the remote at the VCR, and press the VCR1 button. Then press POWER or CHAN UP or DOWN to see if the VCR responds to the remote commands. If not, the remote needs to be programmed.

Follow these steps to program your universal remote to control your VCR:

1. Turn on the VCR to be programmed.
2. Look up your VCR brand and code number(s) on the code list on the next page.
3. Press and hold the VCR1 button on the remote.
4. Enter the two-digit code from the code list.
5. Release VCR1 then press POWER to see if the VCR responds to the remote commands. If it doesn't, try pressing VCR1 and POWER to see if the VCR responds.

This remote may not operate all models of the brands that are shown. Use the codes shown at right or on the sheet packed in with your remote.

To program the VCR2•LD button to control a second VCR, follow these steps but use the VCR2•LD button instead of the VCR1 button.

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PROGRAMMING THE REMOTE

Universal Remote VCR Codes

Aiwa 15
Akai 03,22,23
Audio Dynamics 14,16
Broksonic 10
Canon 08
Capehart 01
Citizen 09
Craig 07,12
Curtis Mathes 00,08,15
Daewoo 13
dbx 14,16
Dimensia 00
Dynatech 15
Emerson 09,10,13,15,
..... 20,23,24,34,41
Fisher 02,12,18,19,43
Funai 15
GE 00,07,08,32,37
Goldstar 09,14
Harman Kardon 14
Hitachi 05,15,35,36
Instant Replay 08
JCL 08
JCPenney 02,05,07,08,
..... 14,16,30,35
JVC 02,14,16,30
Kenwood 02,14,16,30
Lloyd's 15
Magnavox 08,29
Marantz 02,08,14,16,29,30
Marta 09
MEI 08
Memorex 08,09,12,15
MGA 04,27
Minolta 05,35
Mitsubishi 04,05,27,35,40
Montgomery Ward 06
MTC 07,15
Multitech 07,15,31,32
NEC 02,14,16,30
Panasonic 08
Pentax 05,35
Philco 08,29
Philips 08,29
Pioneer 05,16,33
ProScan 00
Quartz 02
Quasar 08
RCA 00,05,07,08,28,35,37
Realistic 02,06,08,09,12,
..... 15,19,43
Samsung 07,13,22,32,42
Sansui 16
Sanyo 02,12
Scott 04,13,41
Sears 02,05,09,12,18,19,35,43
Sharp 06,24,39
Shintom 17,26,31
Sony 17,26,38
Sylvania 08,15,29
Symphonic 02,15
Tashiko 09
Tatung 30
Teac 15,30
Technics 08
Teknika 08,09,15,21
Toshiba 05,13,19
Totevision 07,09
Unitech 07
Vector Research 14,16
Victor 16
Video Concepts 14,16
Videosonic 07
Wards 05,06,07,08,12,
..... 13,15,25,31,35
Yamaha 02,14,16,30
Zenith 11,17

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PROGRAMMING THE REMOTE

PROGRAMMING THE REMOTE TO CONTROL A LASERDISC PLAYER

Laserdisc Player Codes	
ProScan	33
RCA	33

The remote may need to be programmed for your equipment. This remote may not operate all models of the brands that are shown below. Use the codes at right or on the sheet packed with your remote.

1. Turn on the laserdisc player.
2. Look up your brand and its code number(s) on code list at right.
3. Press and hold the VCR2•LD button on the remote.
4. Enter the two-digit code from the code list.
5. Release the VCR2•LD button and press POWER or another button to see if the laserdisc player responds to the remote commands.
6. Repeat these steps using the next code listed for your brand, until the laserdisc player responds to the remote commands.

Audio Codes	
RCA/ Dimensia	
AM/FM	03
CD	07
Tape	06
Phono	05
Aux	04

PROGRAMMING THE REMOTE TO CONTROL AN AUDIO DEVICE:

Your remote controls only RCA audio equipment such as a radio, CD player, tape player, turntable, or amplifier. The remote may need to be programmed for your equipment. This remote may not operate all models of the brands that are shown at right. Use the codes below or on the sheet packed in with your remote.

1. Turn on the component to be programmed.
2. Look up your brand and its code number(s) on the code list at right.
3. Press and hold the AUDIO button.
4. Enter the two-digit code from the code list.
5. Release the AUDIO button and press POWER or CHAN UP or DOWN to see if the audio device responds to the remote commands.
6. Repeat these steps using the next code listed for your *brand until the audio device responds to the remote* commands.

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PROGRAMMING THE REMOTE

PROGRAMMING THE REMOTE TO CONTROL A DSS RECEIVER

The universal remote is preprogrammed to control the DSS receiver. Follow the instructions below for basic operation of the receiver. You may also want to experiment with other buttons on the remote to see if they work with your receiver.

TV Remote (works like)	**DSS Remote**
DISPLAY	SELECT/DISPLAY
PREV CH	PREV CH
ANTENNA	TV/DSS
CLEAR	CLEAR
MENU	MENU
MOVE	ARROWS

PROGRAMMING THE REMOTE TO CONTROL A SATELLITE OR CABLE BOX

Refer to the Connection Foldout or contact your cable company to hook up your cable box. If you have a cable box with its own remote, then you may also be able to use the TV's remote with your cable box. This remote may not operate all models of the brands that are shown below. Use the codes below or on the sheet packed with your remote.

1. Turn on the cable box.
2. Look up your brand and its code number(s) on code list at right.
3. Press and hold the DSS•CABLE button on the remote.
4. Enter the two-digit code from the code list.
5. Release the DSS•CABLE button and press POWER or CHAN UP or DOWN to see if the cable box responds to the remote commands.
6. Repeat these steps using the next code listed for your brand until the cable box responds to the remote commands.

Satellite / Cable Box Codes

ABC	22,46
Anvision	07,08
Cablestar	07,08
Eagle	08
Eastern International	02
General Instrument	04,05, 15,23,24,25,30,36,46
Hamlin	12,13,34,48
Hitachi	37,43,46
Jerrold	04,05,15,23, 24,25,30,36,45,46,47
Macom	37,43
Magnavox	07,08,19,21, 26,28,29,32,33,40,41
NSC	09
Oak	01,16,38
Oak Sigma	16
Panasonic	03,27,39
Philips	07,08,19,21,26,28, 29,32,33,40,41
Pioneer	18,20,44
Randtek	07,08
RCA	00,27
Regal	12,13
Regency	02,33
Samsung	44
Scientific Atlanta	03,22,35
Signature	46
Sprucer	27
Starcom	46
Sylvania	11
Teknika	06
Texscan	10,11
Tocom	17,21,49,50
Unika	31,32,41
Viewstar	07,08,19,21,26, 28,29,32,33,40,41
Warner Amex	44
Zenith	14,42

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USING THE REMOTE TO CONTROL A DEVICE

Once the remote has been programmed with the correct codes, you are ready to use it to control your devices.

To operate the device:

1. Press the device button (TV, VCR1, VCR2•LD, DSS•CABLE, or AUDIO) to set the remote to control the device.
2. Press OFF/ON to turn the device off or on.
3. Use the remote buttons that apply to that device.

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TOUR OF THE TV

A PICTURE BOOK TOUR

This section talks about the TV's main parts (at least the parts you'll actually use):

- The Remote Control
- The Channel Marker
- The Back Panel
- The Front Panel

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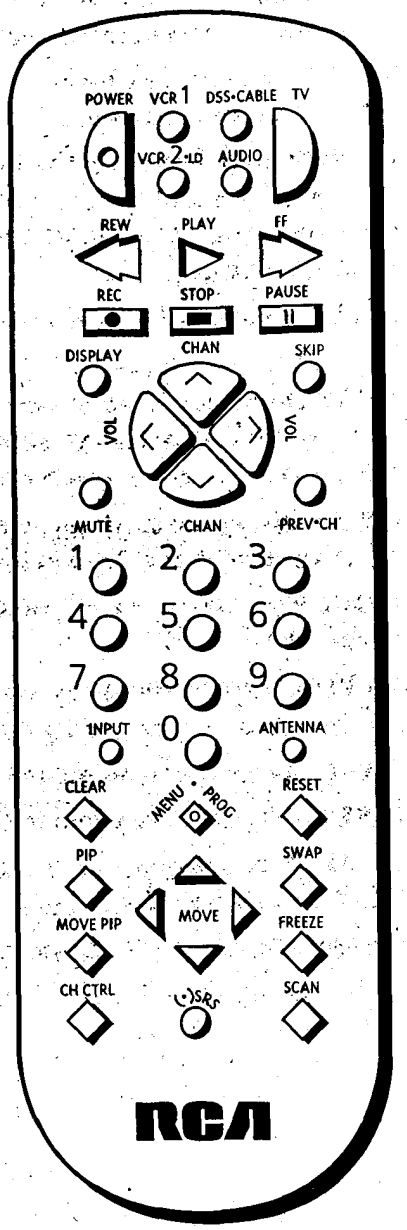
REMOTE BUTTONS



POWER When in TV mode, turns off the TV. In VCR mode, and if programmed, turns on and off most VCRs.

VCR1 If programmed, turns on VCR and puts the remote in VCR mode. Also turns on the TV.

DSS•CABLE Turns on DSS receiver or, if programmed, most cable boxes. Puts the remote in DSS•CABLE mode. Also turns on the TV.

VCR2•LD If programmed, turns on second VCR or laserdisc player. Puts the remote in VCR2•LD mode. Also turns on the TV.

TV Turns on the TV and puts the remote in TV mode. Also displays channel information.

AUDIO If programmed, turns on RCA audio component and puts the remote in audio mode.

REW, PLAY, FF, REC, STOP, PAUSE If programmed, provide transport control for some remote-controllable VCRs, laserdisc players, tape decks, and CD players.

VOL < or VOL > Decreases or increases the TV's volume.

CHAN ^ or CHAN v Scans up or down through the current channel list. Press once to change the channel up or down; press and hold to continue changing channels.

DISPLAY Brings up channel information. Press repeatedly to see detailed program information, if available.

SKIP Press once before changing channels and the TV will wait 30 seconds before returning you to the original channel. Press repeatedly to add more time.

MUTE Turns off the TV's sound. Press again to restore the sound.

PREV CH Returns you to the previous channel.

(0-9) Number Buttons Enters channel numbers and time settings directly though the remote control. To enter a two-digit channel, press the two digits. To enter a three-digit channel, press and hold the first digit, then add the second two. Example: to tune to channel 123, press and hold 1, press 2, then press 3.

INPUT Press to toggle through the available input sources (VID1, VID2, FRNT, etc.).

For more, see *Programming the Remote*, p. 23.

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TOUR OF THE TV

ANTENNA Functions as TV/VCR button in VCR mode and TV/DSS button in DSS•Cable Mode.

CLEAR Removes any menu or display from the screen and returns you to TV viewing.

MENU•PROG Brings up the Main Menu. When in the menu system, selects highlighted items or returns you to the previous menu. When in VCR mode, it functions as a PROGRAM button.

RESET Returns all picture quality controls to their original settings.

MOVE (Arrows) Used to point to different items in the menu system. Also used to adjust the menu controls. Also move the PIP window when no menus are on the screen.

PIP Brings up the small picture-in-picture window. Press again to remove the PIP window.

MOVE PIP Moves the PIP window to the four corners of the screen.

CH CTRL Selects the picture window, (that is, the main or PIP window) that is changed by the CHAN^ and CHAN v buttons.

SWAP Swaps the main picture with the PIP window.

FREEZE Freezes the video in the PIP window.

SCAN Briefly displays each channel from the current channel list. Press again to stop scan.

(•) SRS Press once to display the current audio processor. Press repeatedly to toggle through the available audio processors.

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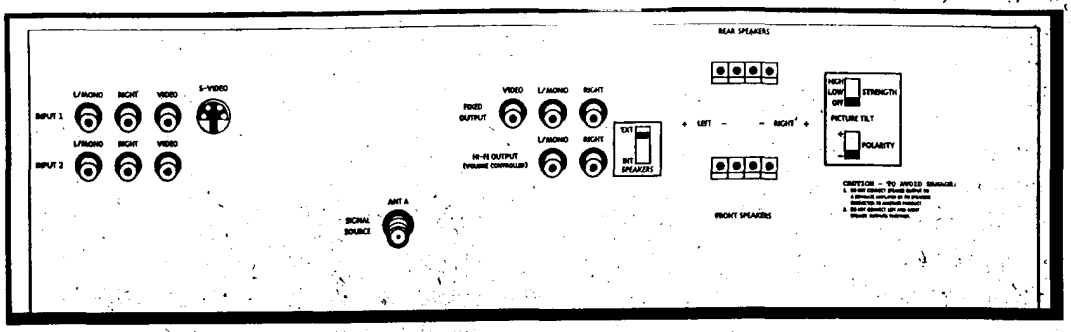
BACK PANEL



INPUT 1 Lets you connect a video component such as a VCR, DSS receiver, or laserdisc player.

L/MONO Provides left audio connection. Or, if you are connecting a mono component, use the L/MONO input. The left audio connector is usually white.

RIGHT Provides right audio connection. The right audio connector is usually red.

VIDEO Provides video connection. The video connector is usually yellow.

S-VIDEO Lets you connect a component with S-Video capability, such as a DSS receiver or S-VIDEO VCR. When using S-Video, make sure to connect the three audio/video cables as well as the S-Video connector.

INPUT2 Provides connection to a second video component such as a VCR or laserdisc player.

L/MONO Provides left audio connection. Or, if you are connecting a mono component, use the L/MONO input. The left audio connector is usually white.

RIGHT Provides right audio connection. The right audio connector is usually red.

VIDEO Provides video connection. The video connector is usually yellow.

SIGNAL SOURCE Provides connection to a home antenna or cable TV system.

FIXED OUTPUT Provides fixed-level audio and video output from the TV. These output signals are ideal for connecting to an A/V receiver or amplifier that has its own remote control. The FIXED OUTPUT jacks are also suitable or for recording from the TV with a VCR, camcorder, or tape deck.

If you are recording from INPUT 1 and you are using S-Video, remember to connect the regular INPUT 1 VIDEO cable as well.

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HI-FI OUTPUT Provides volume-controlled stereo audio output, meaning the volume changes as you change volume on the TV. The HI-FI OUTPUT jacks are ideal for connecting the TV to an amplifier that does not have its own volume control or remote.

SPEAKER SWITCH Lets you turn off the TV's internal (built-in) speakers and play the audio through external speakers connected to the TV. Set SPEAKER SWITCH to EXTERNAL to play audio through external speakers. Set the switch to INTERNAL to play audio through the TV's internal (built-in) speakers

REAR SPEAKERS The REAR SPEAKERS terminals let you connect rear speakers to the TV.

FRONT SPEAKERS The FRONT SPEAKERS terminals let you connect front external speakers to the TV.

POLARITY SWITCH This TV has an extra-large color picture tube, which makes it vulnerable to the effects of the Earth's magnetic field. You may need to reset the POLARITY switch and STRENGTH switches if you reposition the TV or move it to a different room.

If you notice the picture tilting slightly, follow these steps to correct the tilt:

1. Make sure the STRENGTH switch is set to OFF.
2. Move the STRENGTH switch to the LOW. If the picture gets better, but not quite perfect, move the switch to HIGH.
3. If the picture gets worse, change the position of the POLARITY switch. If the picture improves, but is not quite perfect, move the STRENGTH switch to HIGH.

Remember to set the speaker switch back to INTERNAL when you are not using the external speakers.

To connect an amplified subwoofer to the TV, use the left (L/MONO) HI-FI-OUTPUT jack.

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FRONT PANEL

VOL < Decreases the volume. When in the menu system, VOL < is used to point left to items and adjust menu controls.

VOL > Increases the volume. When in the menu system, VOL > is used to point right to items and adjust menu controls.

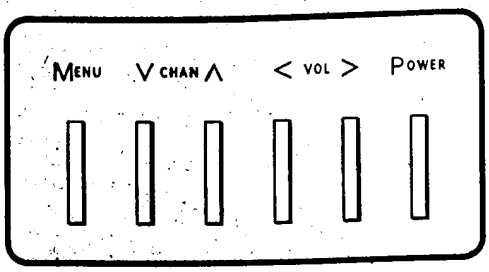
CHAN ^ Scans up through the channel list. In the menu system, it points up to items and adjusts menu controls.

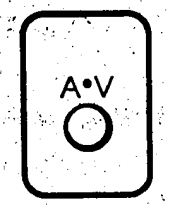
CHAN v Scans down through the current channel list. In the menu system, it points down to items and adjusts menu controls.

MENU Brings up the Main Menu. When in the menu system, it selects highlighted items. Also returns you to the previous menu.

POWER Turns the TV on and off.

A•V (AV Jack) Use the AV adapter included with your TV accessories to connect a camcorder or other device to the front of the TV. The yellow connector is for video; the white for audio.





The front panel above shows a typical button layout. The exact look of the buttons may be different from those on the front of your TV. (In other words, your mileage may vary.)

If you turn Parental Control on, the front panel no longer provides access to the menus. For more information, see *Parental Control*, page 44.

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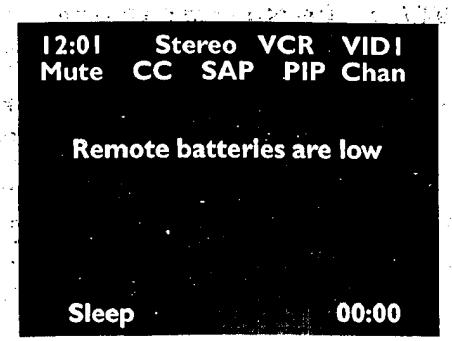
CHANNEL MARKER

There are several indicators that come up when you change channels, press the DISPLAY button, or press the TV button. This display is called the Channel Marker.



12:01 Displays the current time.

Mute Displayed when you mute the audio.

CC Displayed when Closed Captioning is available on the current channel.

SAP Displayed when the current channel is broadcasting SAP (Second Audio Program) information.

PIP Chan Displays the current PIP channel.

Stereo Displayed when the current channel is broadcasting in Stereo.

VCR Displays the label assigned to the current channel.

VID1 Displays the current channel or input channel.

Remote batteries are low Displayed when the batteries in the remote need to be replaced.

Sleep Displayed when the Sleep Timer has been set.

00:00 Displayed to count down time left on the commercial skip (SKIP) timer.

The channel marker shown above is just an example, of course.

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QUICK REFERENCE

A SHORT GUIDE TO THE MENU SYSTEM

This section provides a brief explanation of all the menu commands. These commands are organized in the chapter by their location in the Main Menu.

- **Audio** Contains the controls that let you adjust the way the TV sounds.
- **Picture Quality** Contains the controls that let you adjust the picture.
- **Screen** Contains the controls that let you adjust the Closed-Caption mode and display.
- **Time** Contains the controls that let you set the time and schedule the TV to turn off and on at specific times.
- **Channel** Contains all the commands used to control your channels, including custom-building your channel list, setting parental controls, and setting up your TV to control the components connected to the TV.

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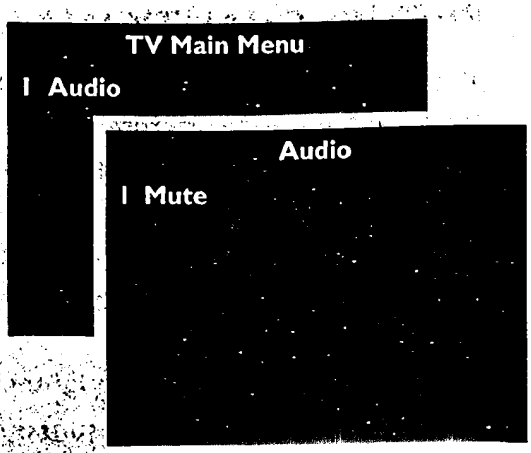
AUDIO MENU



Mute Press MENU to turn the TV audio off or on.

Tone Controls Displays the slider controls for adjusting the TV's Treble, Bass, Balance, and Volume.

Audio Processor Displays a choice list of the available audio modes, which control the way the sound comes through your speakers.

- **Mono** Plays the sound in mono only. Use this setting when receiving broadcasts where the distance makes the signal weak.
- **Synthetic Stereo** Takes a mono audio signal and enhances it to sound more like it has stereo separation.
- **Stereo** Splits the incoming stereo audio signal into left and right channels. Most TV programs and recorded materials have stereo audio. The TV displays the word STEREO when you tune to a program that is broadcast in stereo.
- **SRS Stereo (•)** SRS is an audio processing technology that adds greater depth and stereo separation to stereo audio signals.
- **Enhanced SRS Stereo** Enhances the SRS signal to give the impression of even greater depth and stereo separation.
- **SAP (Second Audio Program)** Plays the program's audio in a second language, if one is available. The TV displays the word SAP when you tune to a program that is broadcast with SAP information. SAP audio is broadcast in mono.
- **SAP in Synthetic Stereo** Enhances the mono SAP (Second Audio Program) to sound like it has stereo separation.

Speakers Displays a choice list that lets you turn the TV's internal or external speakers on or off.

You may notice that fewer Audio Processor options are available when you're tuned to a video input than when you're watching broadcast channels.

For more on the menus, see *Using the Menu System*, p. 7.

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PICTURE QUALITY MENU

Picture Controls Displays the five slider controls for adjusting the way the picture looks.

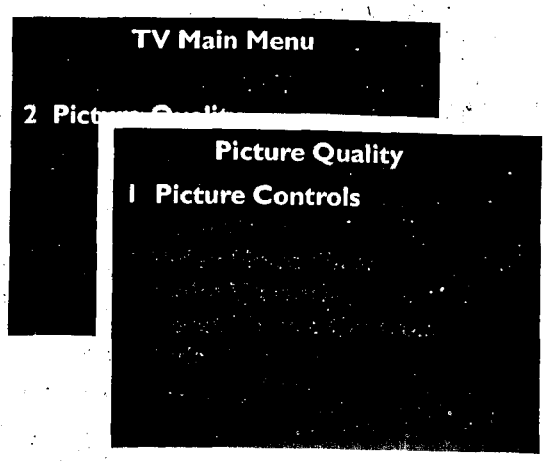
- **Contrast** Adjusts the difference between the light and dark areas of the picture.
- **Color** Adjusts the richness of the color.
- **Tint** Adjusts the balance between the red and green levels.
- **Black Level** Adjusts the brightness of the picture.
- **Sharpness** Adjusts the crispness of edges in the picture.

Auto Color Displays a choice list that lets you turn on the feature that automatically corrects the color of the picture. (This is especially useful for tracking realistic flesh tone colors as you switch from channel to channel.) Select *Off* if you prefer to adjust the picture with the Picture Controls.

Video Noise Filter Displays a choice list that lets you turn on the feature that automatically reduces noise, or "snow," from the picture.

Color Warmth Displays a choice list that lets you set one of three automatic color adjustments: Cool for a more blue palette of picture colors; Normal; and Warm for a more red palette of picture colors.

Reset Picture Controls Displays a choice list that lets you reset the picture controls to their original settings.



Turn the Auto Color feature OFF if you prefer to adjust the picture with the picture controls.

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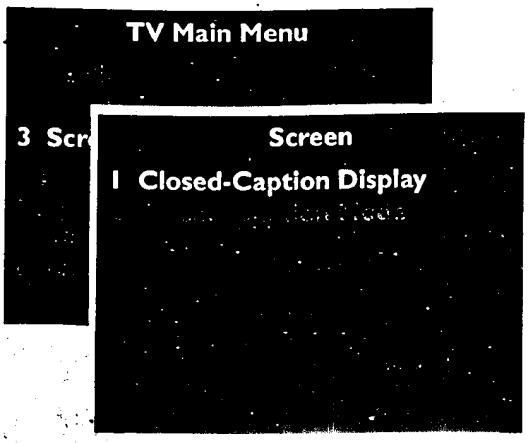
SCREEN MENU



Closed Caption Display Displays a choice list that lets you choose the way closed captioning information is shown on the screen.

Off No captioning information displayed.

On Always Captioning information shown always, when available.

On When Sound is Muted Displays captioning information, when available, whenever the TV's sound is muted by pressing the MUTE button. The captioning information is not displayed when the sound is not muted.

Closed Caption Mode Displays a choice list that lets you choose which captioning mode is used for displaying captioning information.

Captioning information is not available on all channels at all times. For more on using closed captioning, see *Advanced Features*, p. 51

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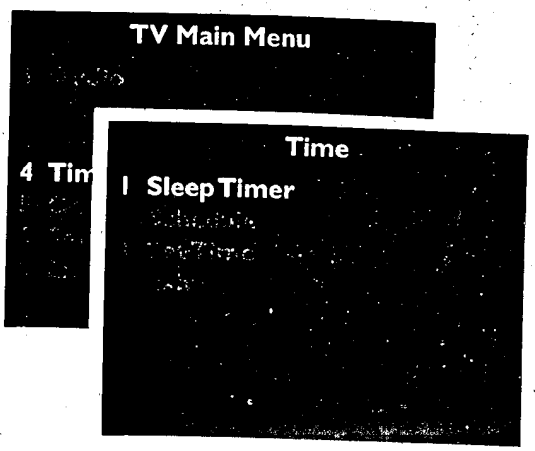
TIME MENU



Sleep Timer Displays a control panel that lets you select the amount of time you want to give the TV before it shuts itself off.

Schedule Displays a control panel that lets you set up a schedule for turning the TV on and off automatically. **Make sure to turn the schedule On.** The on-screen directions guide you through the steps needed to set the schedule.

Set Time Displays a control panel that lets you enter the current time. The on-screen directions guide you through the steps needed to set the schedule.

You have to set the current time before using the Schedule function.

Tip for Using Schedule

To turn the TV into an alarm clock, press RESET to blank both the Start and Stop Time fields. Then set the Start Time. The TV will come on in the morning, and stay on until you turn it off. (I try to stay away from early morning news programs, because the newscasters' voices seem to lull me back to sleep.)

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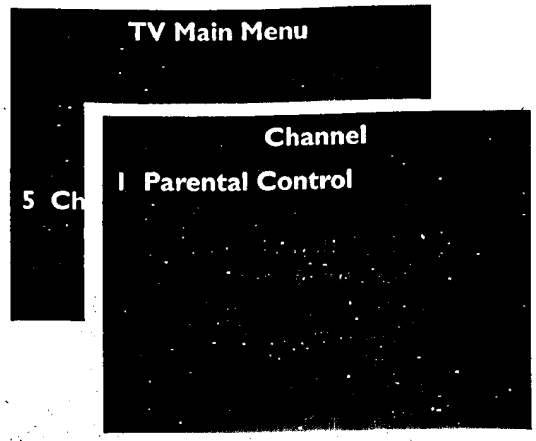
CHANNEL MENU



Parental Control Displays a choice list that lets you adjust the Parental Control feature.

- **On** The front panel CHAN buttons will tune only to channels that you have marked as "Parent Approved" in the Lists and Labels control panel (see below).
  Important: When Parental Control is on, the TV's front panel no longer provides access to the menus. Parents may prefer to hide the remote and let children use the front panel to change channels.
- **Off** The TV shows all channels, whether they are marked as "Parent Approved" or not.

Signal Type Displays a choice list that lets you select the current antenna type. Choose UHF/VHF Antenna if you are currently using an antenna for TV signals.

- **UHF/VHF Antenna** Choose this if you are currently using an off-air antenna for TV signals.
- **Cable TV** Choose this if you are currently using cable or a cable box for TV signals.

Lists and Labels Displays a control panel that lets you custom-build your Normal channel list, choose a four-character label for each channel, and set whether each channel is "parent-approved." Follow the on-screen directions to enter your channels and other information.

- **Chan #** Use the up and down arrows to scroll up and down through the channel scan list. You can enter the channel number directly using the number buttons.
- **Labels** Use the up and down arrows to enter a four-character label for each channel. Hold the button down to scroll quickly through the characters (there are a bunch of them). Press RESET to clear a label. **The TV can store up to 32 labels in memory.**
- **Normal List** Only the channels included in the Normal list are available when you scan up and down using the CHAN buttons. Use the up and down arrows to indicate whether the channel number indicated is included (YES) or is not included (NO) in the Normal channel list.

You may prefer to include only a dozen or so of your favorite channels in the Normal list, and use the number buttons on the remote to access the rest of the channels as desired.

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Parent Approved Use the up and down arrows to choose whether the channel indicated should be shown when the Parental Control feature is turned on. Select YES to indicate that the channel can be shown at any time, regardless of whether Parental Control is turned on. Select NO to indicate that the front panel cannot tune to that channel when Parental Control is turned on. **Important:** You must turn on the Parental Control feature ON in the Parental Control control panel (see above).

Auto Channel Search Displays a control panel that lets you tell the TV to search automatically for all the channels available through the antenna input(s). When the TV finds an active channel, it places it in the channel list; inactive channels (weak stations or channels with no signal at all) will be removed from the channel list.

Auto Tuning Displays a choice list that lets you set up TV to automatically tune to the correct input channel when you press VCR1, VCR2•LD, or DSS•CABLE.

Set VCR 1 Channel Displays a choice list that lets you select the channel that the TV tunes to when you press the VCR1 button. The choices are:

Not Connected Choose this if you do not have a VCR connected to an antenna or Video input on the back of the TV, or if you don't want the TV to tune to a channel when the VCR1 button is pressed.

Channel 3 Antenna A Choose this if your VCR is connected to the Antenna A jack on the back of the TV, and you want the TV to tune to channel 3 when you press the VCR1 button. Reminder: Make sure the VCR's Ch 3/4 switch is set to channel 3.

Channel 4 Antenna A Choose this if your VCR is connected to the Antenna A jack on the back of the TV, and you want the TV to tune to channel 4 when you press the VCR1 button. Reminder: Make sure the VCR's Ch 3/4 switch is set to channel 4.

Video 1 Input Choose this if your VCR is connected to the Video 1 jacks on the back of the TV and you want the TV to tune to Video I input when you press the VCR1 button.

Video 2 Input Choose this if your VCR is connected to the Video 2 jacks on the back of the TV and you want the TV to tune to Video 2 input when you press the VCR1 button.

Auto Tuning is part of the interactive setup routine. For more, see *Interactive Setup*, p. 15.

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Set VCR 2 Channel Displays a choice list that lets you select the channel that the TV tunes to when you press the VCR2•LD button.

The choices are the same as those listed under Set VCR 1 Channel, above, except that the component is the second VCR or laserdisc player, and the remote button being programmed is VCR2•LD. For example:

Video 2 Input Choose this if your second VCR or laserdisc player is connected to the Video 2 jacks on the back of the TV and you want the TV to tune to Video 2 input when you press the VCR2•LD button. This is a typical setting for a second VCR or laserdisc player.

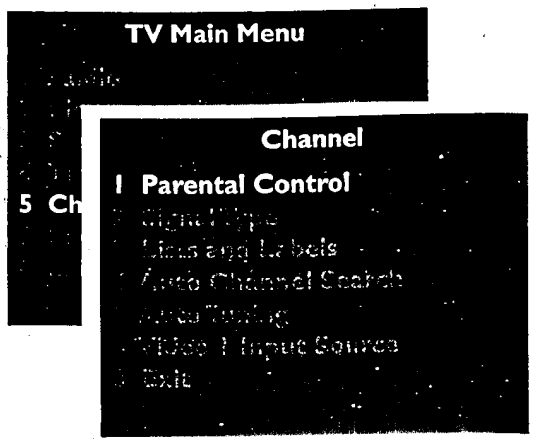
Set DSS•Cable Channel Displays a choice list that lets you select the channel that the TV tunes to when you press the DSS•CABLE button. Usually, DSS•CABLE can control either a DSS receiver connected to the Video 1 input jacks, or a cable box connected to the Antenna A jack.

The choices are the same as those listed under Set VCR 1 Channel, above, except that the component is either a DSS Receiver or a cable box, and the button being programmed is DSS•CABLE. Here is an example for each:

Video 1 Input Choose this if your DSS Receiver is connected to the Video 1 jacks on the back of the TV and you want the TV to tune to Video 1 input when you press the DSS•CABLE button. (This is the typical setting for a DSS Receiver.)

Ch 3 Antenna A Choose this if your cable box is connected to the Antenna A jack on the back of the TV and you want the TV to tune to channel 3 when you press the DSS•CABLE button. (This is a typical setting for a cable box.)

Video 1 Input Source Displays choice list that lets you tell the TV whether your Video 1 input source is connected with a regular video cable or both an S-Video cable and a video cable.



Important

If you are using an S-Video connection, make sure to change the Video 1 Input Source to S-Video. If you don't, the TV won't know to tune to the S-Video channel.

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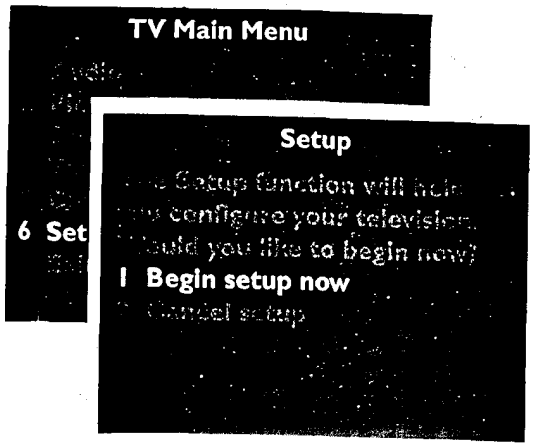
QUICK REFERENCE

SETUP

The Setup routine is detailed in Interactive Setup, pages 15-21.



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